



Memorandum

TO: HONORABLE MAYOR AND
CITY COUNCIL

FROM: Carl W. Mosher

SUBJECT: SEE BELOW

DATE: 5-5-04

Approved

Date

SUBJECT: REPORT ON BIDS AND AWARD OF CONTRACT FOR THE SAN JOSE/SANTA CLARA WATER POLLUTION CONTROL PLANT, FY 2003/2004 CAPITAL IMPROVEMENT PROGRAM, FILTER INFLUENT AND EFFLUENT FLOWMETER REPLACEMENT

RECOMMENDATION

Report on bids and award of contract for the construction project entitled, "San Jose/Santa Clara Water Pollution Control Plant, FY 2003/2004 Capital Improvement Program, Filter Influent and Effluent Flow Meter Replacement," to the low bidder, Anderson Pacific Engineering Construction Incorporated, in the amount of \$467,000; and approval of a contingency in the amount of \$46,700.

BACKGROUND

One of the more critical and complex parts of the treatment of wastewater is the filtration process. During this process, the flow must be measured and analyzed to provide data for the next process, disinfection, so that the precise dosage of chemicals can be achieved. This ensures both an efficient use of chemicals and an effluent that meets regulation.

The Water Pollution Control Plant's (Plant) current flow measurement technology at the filtration stage is the use of venturi flowtubes, which have been in service for the past twenty-five years. This technology is an inexpensive first cost method of measurement; however, it limits hydraulic capacity and is maintenance intensive. As originally budgeted, the appropriation was funded to replace these meters with an upgrade to ultra-sonic meters. However, after further review and input by operations and maintenance staff; and the availability of funds through savings from the Facility Roof Replacement and East Primary Stainless Steel Conversion Recurring Projects in the Plant Infrastructure Appropriation, a decision was made to upgrade to magnetic meters. With recent technological advances, magnetic flow meters have become more cost competitive. The magnetic flow meters are more accurate, durable, non-restrictive, and less maintenance intensive.

This creates improved hydraulic capacity; reduced pumping costs and provides more accurate flow data to control the chemical dosing of filtered wastewater. The scope of this project is to remove all existing venturis and replace them with two 72-inch new magnetic flow meters and sixteen 30-inch new magnetic flow meters.

ANALYSIS

Bids were opened on March 25, 2004 for the project. The results of the bids are as follows:

			<u>Variance Over / (Under)</u> Engineer's Estimate	
<u>Contractor</u>	<u>City</u>	<u>Bid Amount</u>	<u>Amount</u>	<u>Percent</u>
Bugler Construction, Inc.	Fremont	\$652,000	\$182,000	38.7%
Pacific Mechanical Corporation	Concord	\$557,000	\$87,000	18.5%
D.W. Nicholson Corporation	Hayward	\$553,000	\$83,000	17.6%
S.R. Hamilton Construction, Inc.	Danville	\$524,900	\$54,900	11.7%
Engineer's Estimate		\$470,000		
Anderson Pacific Engineering Construction, Inc.	Santa Clara	\$467,000		

The low bid by Anderson Pacific of \$467,000 is recommended for approval. This bid is 0.64% percent below the engineer's estimate. The bid documents have been evaluated and found to be in order. Anderson Pacific Inc. has successfully worked on several CIP projects for the Water Pollution Control Plant in the past ten years and is familiar with the site.

The project includes work in Filtration Facilities at the Plant. Due to the complexity of the filtration system located at the congested basement and pipe galleries, a 10% contingency in the amount of \$46,700 is requested for any unforeseen condition that may arise during construction.

PUBLIC OUTREACH

This construction project was listed in the *San José Post Record*, on the Citywide website and ESD Internet Site. The bid packages for all of the Environmental Services Department's construction projects are routinely provided to a standard list of contractor organizations, builder's exchanges, and disadvantaged business organizations.

COORDINATION

This project and memorandum have been coordinated with the Departments of Planning, Building and Code Enforcement, Public Works' Office of Equality Assurance, Risk Management, the City Attorney's Office and the City Manager's Budget Office and is scheduled to be heard at the May 13, 2004 Treatment Plant Advisory Committee (TPAC) meeting.

COST IMPLICATIONS

1. AMOUNT OF RECOMMENDATION: \$513,700
2. COST OF PROJECT:

Construction	\$467,000
Contingency	\$46,700
TOTAL	\$513,700
3. SOURCE OF FUNDING: 512 – San Jose/Santa Clara Treatment Plant Capital Fund
4. FISCAL IMPACT: This project is consistent with the Council-approved Budget Strategy Economic Recovery section in that it will spur construction spending in our local economy.

BUDGET REFERENCE

Fund #	Appn #	Appn. Name	RC #	Total Appn. 2003-04	Amt. for Contract	2003-2004 Adopted Capital Budget	Last Budget Action (Date, Ord. No.)
512	5690	Plant Infrastructure Improvements	042853	\$2,830,000	\$313,700	211	N/A
512	4692	Filter Influent and Effluent Meters Replacement	130311	\$200,000	\$200,000	198	N/A

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NONDISCRIMINATION

The City of San Jose Non-discrimination Requirements are included in this project as required in Chapter 4.08 of the San Jose Municipal Code.

CEQA

Exempt, PP03-11-356.

CARL W. MOSHER

Director, Environmental Services Department